

MuonOffline Meeting
10/16/2002
Slava Krutelyov (Texas A&M)

#### **Outlines**

- Data used
- MExtrapolator performance without energy loss corrections.
- Mextrapolator with energy loss corrections + additional tuning.
- Conclusion
- Plan

#### Data used

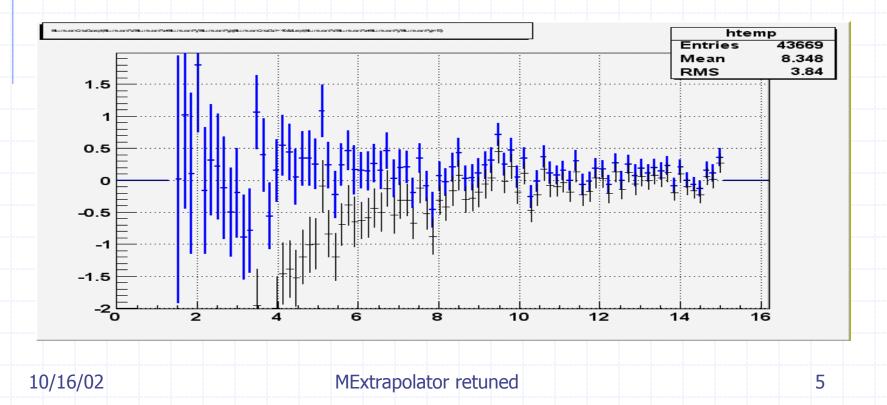
- MC: FAKE\_EV single muons. Default simulation. Default reconstruction. Cdfsoft2 release v4.8.4.
- Data (not ready yet):~70K events from jbo0f dset (Jpsi→mumu strip)

## Mextrapolator: no E loss

- ◆CMU, CMP matching values are not affected by the E loss. B field flux is relatively small in the CHA region→no sizeable correction to the trajectory
- ◆CMX (IMU) matching is affected. Large B field flux (perpendicular to oZ) in the wall region → sizeable corrections, esp. for low p\_T.

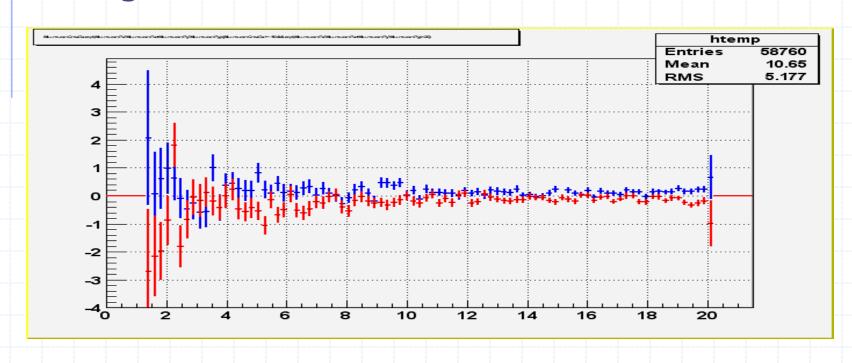
# Mextrapolator: retuned (comparison)

- CMU/CMP: no sizeable effect.
- CMX: good improvement.



# Mextrapolator: retuned (charge dependence)

CMX: some noticeable charge dependence, might need some additional correction.



### Conclusion

Mextrapolator is tuned well for CMX.

10/16/02

MExtrapolator retuned



- Take a look at the jpsi data.
- Possibly "de"-tune for high p\_T
- Commit the changes.